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1 [Papers: Voice over IP performance monitoring](#)

R. G. Cole, J. H. Rosenbluth

 April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2

Full text available: pdf(1.35 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe a method for monitoring Voice over IP (VoIP) applications based upon a reduction of the ITU-T's E-Model to transport level, measurable quantities. In the process, 1) we identify the relevant transport level quantities, 2) we discuss the tradeoffs between placing the monitors within the VoIP gateways versus placement of the monitors within the transport path, and 3) we identify several areas where further work and consensus within the industry are required. We discover that the releva ...



2 [Satellite-based information services: Delay bounds for voice over IP calls transported over satellite access networks](#)

Jan Janssen, Danny De Vleeschauwer, Guido H. Petit, Rudi Windey, Jean-Marie Leroy

 January 2002 **Mobile Networks and Applications**, Volume 7 Issue 1

Full text available: pdf(358.14 KB)

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Whether or not voice calls of traditional quality can be supported between two users connected to an IP backbone via satellite access systems depends largely on the mouth-to-ear delay, an important part of which is consumed by the satellite networks themselves. In this paper, a methodology is developed to calculate upper bounds for the latter delay component as a function of the used codec, the experienced packet loss ratio, the echo levels at both sides of the connection and the chosen voice pa ...



Keywords: E-model, delay, distortion, satellite, voice over IP

3 [VOIP: Impact of link failures on VoIP performance](#)

Catherine Boutremans, Gianluca Iannaccone, Christophe Diot

 May 2002 **Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video**

Full text available: pdf(198.37 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We use active and passive traffic measurements to identify the issues involved in the deployment of a voice service over a tier-1 IP backbone network. Our findings indicate that no specific handling of voice packets (i.e. QoS differentiation) is needed in the current

